

FORM PTO-1449 (Modified) US DEPARTMENT OF COMMERCE Docket No. Application No. Approved for use through 10/31/20027Fabris 50623.333 10/668,781 US Patent and Trademark Office INFORMATION DISCLOSURE CITATION Applicant Syed F.A. Hossainy et al. in an Application Group Art Unit (Use several sheets if necessary) Filing Date 3731 September 22, 2003 **U.S. PATENT DOCUMENTS** Subclass Filing Date if Class Ref. No. Document Date of Name Examiner **Appropriate** Patent Number initial 128 343 Palmaz 3/29/88 4,733,665 Α1 Gianturco 128 343 A2 1/31/89 4,800,882 Wiktor 128 343 Α3 4,886,062 12/12/89 424 484 6/5/90 Bae et al. 4,931,287 A4 772 12/18/90 Ofstead 128 **A5** 4,977,901 Kruper, Jr. et al. 534 10 2/19/91 Α6 4,994,560 Yock 128 898 8/20/91 A7 5,040,548 Fischell 600 3 Α8 5,059,166 10/22/91 Porter 623 12 11/12/91 Α9 5,064,435 604 53 2/11/92 Wolinsky 5,087,244 A10 195 606 A11 5,100,429 3/31/92 Sinofsky et al. Weinstein et al. 600 7 5/25/93 5,213,561 A12 536 427 Cahalan et al. 5,229,172 7/20/93 A13 604 96 5,232,444 8/3/93 Just A14 522 109 11/2/93 Rolando et al. 5,258,419 A15 1/11/94 Coury et al. 523 112 5,278,200 A16 2 427 A17 5,308,641 5/3/94 Cahalan et al. 604 101 7/12/94 Slepian A18 5,328,471 Narayanan et al. 623 1 8/9/94 5,336,518 A19 600 8 A20 5,342,283 8/30/94 Good 423 5,342,621 8/30/94 Eury 424 A21 623 11 **A22** 5,344,455 9/6/94 Keogh et al. 525 54.2 9/27/94 Verhoeven et al. A23 5,350,800 623 11 **A24** 5,366,504 11/22/94 Andersen et al. 600 3 A25 5,411,466 5/2/95 Hess Cahalan et al. 428 409 A26 5,415,938 5/16/95 5,429,618 7/4/95 Keogh 604 266

M	A28	5,443,496	8/22/95	Schwartz et al.	623	1	
	A29	5,464,450	11/7/95	Buscemi et al.	623	6	
	A30	5,464,650	`11/7/95	Berg et al.	427	2.30	
	A31	5,470,313	11/28/95	Crocker	604	96	
	A32	5,476,509	12/19/95	Keogh et al.	623	1	
	A33	5,500,013	3/19/96	Buscemi et al.	623	1	٠.
	A34	5,551,954	9/3/96	Buscemi et al.	623	1	
	A35	5,554,182	9/10/96	Dinh et al.	623	1	
	A36	5,571,166	11/5/96	Dinh et al.	623	1	
	A37	5,578,073	11/26/96	Haimovich et al.	623	1	
	A38	5,591,224	1/7/97	Schwartz et al.	623	1	
	A39	5,591,227	1/7/97	Dinh et al.	623	1	
	A40	5,599,352	2/4/97	Dinh et al.	623	1	-
	A41	5,605,696	2/25/97	Eury et al.	424	423	•
	A42	5,624,411	4/29/97	Tuch	604	265	
	A43	5,628,730	5/13/97	Shapland et al.	604	. 21	
1.	A44	5,628,785	5/13/97	Schwartz et al.	623	1	
	A45	5,637,113	6/10/97	Tartaglia et al.	623	1	
	A46	5,649,951	7/22/97	Davidson	606	198	
	A47	5,649,977	7/22/97	Campbell	623	1	
	A48	5,667,767	9/16/97	Greff et al.	424	9.411	
	A49	5,670,558	9/23/97	Onishi et al.	523	112	
	A50	5,674,242	10/7/97	Phan et al.	606	198	
	A51	5,693,085	12/2/97	Buirge et al.	623	1	
	A52	5,693,376	12/2/97	Fetherston et al.	427	523	·
	A53	5,697,967	12/16/97	Dinh et al.	623	1	
	A54	5,700,286	12/23/97	Tartaglia et al.	623	1	
	A55	5,702,818	12/30/97	Cahalan et al.	428	409	
	A56	5,707,385	1/13/98	Williams	606	192	
	A57	5,711,812	1/27/98	Chapek et al.	118	723 E	
	A58	5,713,949	2/3/98	Jayaraman	623	1	
	A59	5,716,981	2/10/98	Hunter et al.	514	449	
M	A60	5,722,984	3/3/98	Fischell et al.	606	198	

700	A61	5,730,698	3/24/98	Fischell et al.	600	3	5/9/95
	A62	5,766,710	6/16/98	Turnlund et al.	428	36.1	
	A63	5,769,883	6/23/98	Buscemi et al.	623	1	
	A64	5,769,884	6/23/98	Solovay	623	1	
	A65	5,782,742	7/21/98	Crocker	600	3	
	A66	- 5,800,392	9/1/98	Racchini	604	96	
	A67	5,811,151	9/22/98	Hendriks et al.	427	2.24	
	A68	5,824,048	10/20/98	Tuch	623	1	
	A69	5,824,049	10/20/98	Ragheb et al.	623	1	
	A70	5,826,586	10/27/98	Mishra et al.	128	898	
	A71	5,830,178	11/3/98	Jones et al.	604	49	
	A72	5,837,313	11/17/98	Ding et al.	427	2.21	
	A73	5,840,009	11/24/98	Fischell et al.	600	3	
	A74	5,843,172	12/1/98	Yan	623	1	
	A75	5,851,508	12/22/98	Greff et al.	424	9.411	
	A76	5,857,998	1/12/99	Barry	604	96	
	A77	5,858,556	1/12/99	Eckhart et al.	428	586	
	A78	5,858,990	1/12/99	Walsh	514	44	
	A79	5,865,814	2/2/99	Tuch	604	265	·
	A80	5,866,113	2/2/99	Hendriks et al.	424	78.17	
	A81	5,871,436	2/16/99	Eury	600	3	
	A82	5,871,437	2/16/99	Alt	600	3	
	A83	5,873,904	2/23/99	Ragheb et al.	623	1	
	A84	5,893,840	4/13/99	Hull et al.	604	96	
	A85	5,897,911	4/27/99	Loeffler	427	2.25	
	A86	5,898,178	4/27/99	Bunker	250	423	
	A87	5,902,631	5/11/99	Wang et al.	427	2.1	
	A88	5,916,234	6/29/99	Lam	606	198	
	A89	5,925,552	7/20/99	Keogh et al.	435	174	
.	A90	5,928,916	7/27/99	Keogh	435	174	
	A91	5,951,881	09/14/99	Rogers et al.	216	41	
	A92	5,968,091	10/19/99	Pinchuk et al.	623	1	
MX	A93	5,968,092	10/19/99	Buscemi et al.	623	1	

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700	A94	5,971,954	10/26/99	Conway et al.	604	96	
	A95	5,972,027	10/26/99	Johnson	623	1	
	A96	5,972,029	10/26/99	Fuisz	623	1	
	A97	5,980,564	11/9/99	Stinson	623	1	_
	A98	5,980,564	11/9/00	Stinson	623	1	
	A99	5,980,928	11/9/99	Terry	424	427	
	A100	5,980,972	11/9/99	Ding	427	2.24	
	A101	5,997,517	12/7/99	Whitbourne	604	265	
	A102	6,010,530	1/4/00	Goicoechea	623	1	
	A103	6,013,099	1/11/00	Dinh et al.	623	1	
	A104	6,015,541	1/18/00	Greff et al.	424	1.25	
	A105	6,019,789	2/1/00	Dinh et al.	623	1	
	A106	6,024,918	2/15/00	Hendriks et al.	422	44	
	A107	6,027,526	2/22/00	Limon et al.	623	1	
	A108	6,033,719	3/7/00	Keogh	427	2.12	
	A109	6,042,606	3/28/00	Frantzen	623	1	
	A110	6,042,875	3/28/00	Ding et al.	427	2.24	
	A111	6,059,752	5/9/00	Segal	604	107	
	A112	6,071,305	6/6/00	Brown et al.	623	1	
	A113	6,080,099	6/27/00	Slater	600	8	
	A114	6,080,190	6/27/00	Schwartz	623	1	
	A115	6,093,199	6/25/00	Brown et al.	606	200	
	A116	6,096,070	8/1/00	Ragheb et al.	623	1	5/16/96
	A117	6,099,455	8/8/00	Columbo et al.	600	3	11/25/98
	A118	6,099,559	8/8/00	Nolting	623	1.16	5/28/98
	A119	6,099,561	8/8/00	Alt	623	1.44	10/20/98
	A120	6,106,454	8/22/00	Berg et al.	600	3	6/17/97
	A121	6,110,483	8/29/00	Whitbourne et al.	424	423	6/23/97
	A122	6,140,127	10/31/00	Sprague	435	395	2/18/98
	A123	6,140,431	10/31/00	Kinker et al.	526	79	2/12/98
	A124	6,149,574	11/21/00	Trauthen et al.	600	3	3/17/98
	A125	6,153,252	11/28/00	Hossainy et al.	427	2.3	4/19/99
MD	A126	6,165,212	12/26/00	Dereume et al.	623	1.13	6/28/99

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A127	6,168,619	1/2/01	Dinh et al.	623	1.13	10/16/98
A128	6,203,551	3/20/01	Wu	606	108	10/4/99
A129	6,214,901	4/10/01	Chudzik et al.	523	113	4/15/99
A130	6,224,894	5/1/01	Jamiolkowski et al.	424	426	8/11/00
A131	6,231,590	5/15/01	Slaikeu et al.	606	200	7/12/99
A132	6,242,041	6/5/01	Katoot et al.	427	2.24	11/10/98
A133	6,253,443	7/3/01	Johnson	29	557	10/18/99
A134	6,254,632	7/3/01	Wu et al.	623	1.15	9/28/00
A135	6,258,121	7/10/01	Yang et al.	623	1.46	7/2/99
A136	6,262,034	7/17/01	Mathiowitz et al.	514	44	11/25/97
A137	6,273,850	8/14/01	Gambale	600	3	10/29/97
A138	6,273,913	8/14/01	Wright et al.	623	1.42	4/16/98
A139	6,287,628	9/11/01	Hossainy et al.	427	2.3	9/3/99
A140	6,296,603	10/2/01	Turnlund et al.	600	3	5/26/98
A141	6,319,520	11/20/01	Wuthrich et al.	424	482	6/27/00
A142	6,344,035	2/5/02	Chudzik et al.	604	265	10/20/00
A143	6,379,379	4/30/02	Wang	623	1.31	8/13/99
A144	6,379,381	4/30/02	Hossainy et al.	623	1.42	9/3/99
A145	6,413,272	7/2/02	lgaki	623	1.15	2/28/01
A146	6,488,701	12/3/02	Nolting et al.	623	1.13	3/31/98
A147	6,504,307	1/7/03	Malik et al.	315	111.21	11/30/00
A148	6,524,232	2/25/03	Tang et al.	600	3	12/22/00
A149	6,554,758	4/29/03	Turnlund et al.	600	3	1/5/01
A150	6,582,417	6/24/03	Ledesma et al.	604	529	2/16/00
A151	6,605,114	8/12/03	Yan et al.	623	1.43	10/29/99
A152	09/697,106		Hossainy et al.			10/26/00
A153	09/834,012		Hossainy et al.			4/12/01
A154	2001/0001806	5/24/01	Turnlund et al.	600	3	1/5/01
		FOREIGN	PATENT DOCUMENTS			
Ref. No.	Document Number	Date of	Country	Class	Subclass	Translation No
B1			PCT		<u> </u>	1.00
<del>1</del>		<del>                                     </del>	PCT			
B2	WO91/12846	9/5/91	rui -		1	
	A128 A129 A130 A131 A132 A133 A134 A135 A136 A137 A138 A139 A140 A141 A142 A143 A144 A145 A146 A147 A148 A149 A150 A151 A152 A153 A154	A128 6,203,551 A129 6,214,901 A130 6,224,894 A131 6,231,590 A132 6,242,041 A133 6,253,443 A134 6,254,632 A135 6,258,121 A136 6,262,034 A137 6,273,850 A138 6,273,913 A139 6,287,628 A140 6,319,520 A141 6,319,520 A142 6,344,035 A143 6,379,379 A144 6,379,381 A145 6,413,272 A146 6,488,701 A147 6,504,307 A148 6,524,232 A149 6,554,758 A150 6,582,417 A151 6,605,114 A152 09/697,106 A153 09/834,012 A154 2001/0001806	A128 6,203,551 3/20/01 A129 6,214,901 4/10/01 A130 6,224,894 5/1/01 A131 6,231,590 5/15/01 A132 6,242,041 6/5/01 A133 6,253,443 7/3/01 A134 6,254,632 7/3/01 A135 6,258,121 7/10/01 A136 6,262,034 7/17/01 A137 6,273,850 8/14/01 A138 6,273,913 8/14/01 A139 6,287,628 9/11/01 A140 6,296,603 10/2/01 A141 6,319,520 11/20/01 A142 6,344,035 2/5/02 A143 6,379,379 4/30/02 A144 6,379,381 4/30/02 A145 6,413,272 7/2/02 A146 6,488,701 12/3/02 A147 6,504,307 1/7/03 A148 6,524,232 2/25/03 A149 6,554,758 4/29/03 A150 6,582,417 6/24/03 A151 6,605,114 8/12/03 A152 09/697,106 A153 09/834,012 A154 2001/0001806 5/24/01 FOREIGN Ref. No. Document Number Publication	A128 6,203,551 3/20/01 Wu A129 6,214,901 4/10/01 Chudzik et al. A130 6,224,894 5/1/01 Jamiolkowski et al. A131 6,231,590 5/15/01 Slaikeu et al. A132 6,242,041 6/5/01 Katoot et al. A133 6,253,443 7/3/01 Johnson A134 6,254,632 7/3/01 Wu et al. A135 6,258,121 7/10/01 Yang et al. A136 6,262,034 7/17/01 Mathiowitz et al. A137 6,273,850 8/14/01 Gambale A138 6,273,913 8/14/01 Wright et al. A139 6,287,628 9/11/01 Hossainy et al. A140 6,296,603 10/2/01 Turnlund et al. A141 6,319,520 11/20/01 Wuthrich et al. A142 6,344,035 2/5/02 Chudzik et al. A143 6,379,379 4/30/02 Wang A144 6,379,381 4/30/02 Hossainy et al. A145 6,413,272 7/2/02 Igaki A146 6,488,701 12/3/02 Nolting et al. A147 6,504,307 1/7/03 Malik et al. A148 6,524,232 2/25/03 Tang et al. A150 6,582,417 6/24/03 Ledesma et al. A151 6,605,114 8/12/03 Yan et al. A152 09/697,106 Hossainy et al. A153 09/834,012 Hossainy et al. A154 Country A156 Document Number Publication Country  Poblication  Porelign PATENT DOCUMENTS  Ref. No. Document Number Publication  Porelign PATENT DOCUMENTS  Porelign PATENT DOCUMENTS  Country	A128 6,203,551 3/20/01 Wu 606 A129 6,214,901 4/10/01 Chudzik et al. 523 A130 6,224,894 5/1/01 Jamiolkowski et al. 424 A131 6,231,590 5/15/01 Slaikeu et al. 606 A132 6,242,041 6/5/01 Katoot et al. 427 A133 6,253,443 7/3/01 Johnson 29 A134 6,254,632 7/3/01 Wu et al. 623 A135 6,258,121 7/10/01 Yang et al. 623 A136 6,262,034 7/17/01 Mathiowitz et al. 514 A137 6,273,850 8/14/01 Gambale 600 A138 6,273,913 8/14/01 Wright et al. 623 A139 6,287,628 9/11/01 Hossainy et al. 427 A140 6,296,603 10/2/01 Turnlund et al. 600 A141 6,319,520 11/20/01 Wuthrich et al. 424 A142 6,344,035 2/5/02 Chudzik et al. 604 A143 6,379,379 4/30/02 Wang 623 A146 6,488,701 12/3/02 Nolting et al. 623 A147 6,504,307 17/103 Malik et al. 600 A148 6,524,232 2/25/03 Tang et al. 600 A149 6,554,758 4/29/03 Turnlund et al. 600 A150 6,582,417 6/24/03 Ledesma et al. 604 A151 6,605,114 8/12/03 Yan et al. 623 A152 09/697,106 Hossainy et al. 623 A153 09/834,012 Hossainy et al. 623 A154 2001/0001806 5/24/01 Turnlund et al. 600 A155 Open of the first of	A128         6,203,551         3/20/01         Wu         606         108           A129         6,214,901         4/10/01         Chudzik et al.         523         113           A130         6,224,894         5/1/01         Jamiolkowski et al.         424         426           A131         6,231,590         5/15/01         Slaikeu et al.         606         200           A132         6,242,041         6/5/01         Katoot et al.         427         2.24           A133         6,253,443         7/3/01         Johnson         29         557           A134         6,254,632         7/3/01         Wu et al.         623         1.15           A135         6,258,121         7/10/01         Yang et al.         623         1.46           A136         6,262,034         7/17/01         Mathiowitz et al.         514         44           A137         6,273,950         8/14/01         Gambale         600         3           A138         6,273,913         8/14/01         Wright et al.         623         1.42           A140         6,296,603         10/2/01         Turnlund et al.         600         3           A141         6,319,520         11/

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DA)	B4	EP 0665023	8/2/95	European				
	<b>B</b> 5	EP 0 701 803	3/20/96	European				
	B6	WO97/45105	12/4/97	PCT				
	B7	WO 98/23228	6/4/98	PCT				
	B8	EP 0 850 604	7/1/98	European				
	B9	19916086	10/14/99	DE			Х	
	B10	WO99/63981	12/16/99	PCT				
7	B11	EP 0970711	1/12/00	European				
	B12	EP 0 972 498	1/19/00	European				
	B13	WO00/12147	3/9/00	PCT				
	B14	EP 0 850 651	6/28/00	European				
	B15	WO00/64506	11/2/00	PCT				
	B16	WO01/01890	1/11/01	PCT	,	<u>_</u>		
	B17	EP 1 103 234	5/30/01	European			X	
	B18	WO01/45763	6/28/01	PCT				
1/	B19	WO 01/91918	12/6/01	PCT				
2NY	B20	WO 02/47731	6/20/02	PCT				
		OTHER DOCU	JMENTS	(Including Author, Title, Date, Pertinent F	Pages, etc.	)		
M	C1	Barath et al., Low Dose of Antitumor Agents Prevents Smooth Muscle Cell Proliferation After Endothelial Injury, JACC 13(2):252A (1989) (Abstract).						
	C2	· ·		cle Emission from 'Stent' Wire Results n, Circulation, Vol. 90(6):2956-2963,	-		alized Inhibition	
	СЗ	Hehrlein et al., Low-Dose Radioactive Endovascular Stents Prevent Smooth Muscle Cell Proliferation and Neointimal Hyperplasia in Rabbits, Circulation, Vol. 92(6):1570-1575, September 15, 1995.  Liermann et al., Prophylactic Endovascular Radiotherapy to Prevent Intimal Hyperplasia after Stent Implantation in Femoropopliteal Arteries, CardioVascular and Interventional Radiology 17:12-16, 1994.						
	C4						fter Stent	
	C5							
	C6	Malik et al., Overview of Plasma Source Ion Implantation Research at University of Wisconsin-Madison, J. Vac. Sci. Technol. B 12(2):843-849 (Mar./Apr. 1994).  Malik et al., Sheath Dynamics and Dose Analysis for Planar Targets in Plasma Source Ion Implantation, Plasma Sources Sci. Technol. 2:81-85 (1993).  Matsumaru et al., Embolic Materials for Endovascular Treatment of Cerebral Lesions, J. Biomater. Sci. Polymer Edn. 8(7):555-569 (1997).						
	C7							
	Св							
	C9	Miyazaki et al., Antitumor Effect of Implanted Ethylene-Vinyl Alcohol Copolymer Matrices Containing Anticancer Agents on Ehrlich Ascites Carcinoma and P388 Leukemia in Mice, Chem. Pharm. Bull. 33(6):2490-2498 (1985).						
To	C10	Miyazawa et al., Effecto Cardiovasc. Pharmaco		olast and Tranilast on Intimal Thickenii 7-162 (1997).	ng After A	rterial Inju	ury in the Rat, J	

24	C11	Ohsawa et al., Preventive Effects of an Antiallergic Drug, Pemirolast Potassium, on Restenosis After Percutaneous Transluminal Coronary Angioplasty, Am. Heart J. 136(6):1081-1087 (Dec. 1998).
	C12	Scheuer et al., Model of Plasma Source Ion Implantation in Planar, Cylindrical, and Spherical Geometries, J. Appl. Phys. 67(3):1241-1245 (Feb. 1990).
	C13	Serruys et al., I Like the Candy, I Hate the Wrapper; the <sup>32</sup> P Radioactive Stent, Circulation 101:3-7 (Jan. 2000).
	C14	Shamim et al., Measurement of Electron Emission Due to Energetic Ion Bombardment in Plasma Source Ion Implantation, J. Appl. Phys. 70(9):4756-4759 (Nov. 1991).
	C15	Shamim et al., Measurements of Spatial and Temporal Sheath Evolution for Spherical and Cylindrical Geometrics in Plasma Source Ion Implantation, J. Appl. Phys. 69(5):2904-2908 (March 1991).
	C16	Shigeno, Prevention of Cerebrovascular Spasm by Bosentan, Novel Endothelin Receptor, Chem. Abstracts 125:212307 (1996).
	C17	van der Giessen et al., "Edge Effect" of <sup>32</sup> P Radioactive Stents is Caused by the Combination of Chronic Stent Injury and Radioactive Dose Falloff, Circ. 104:2236-2241 (Oct. 30, 2001).
do	C18	Wiesendanger et al., Contributions Of Scanning Probe Microscopy And Spectroscopy To The Investigation And Fabrication Of Nanometer-Scale Structures, J. Vac. Sci. Technol. B, 12(2):515-529 (Mar./Apr. 1994).
EXAMINER		Olly allifo DATE CONSIDERED 10/12/04
1		rences considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.  with next communication to applicant.